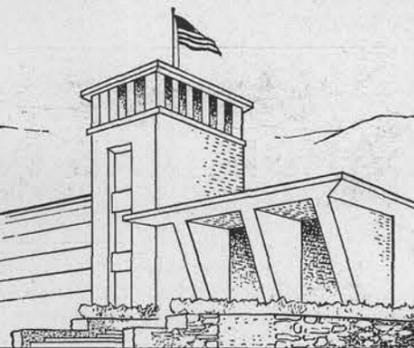


SANDIA LAB NEWS

published every other Friday for the employees of sandia corporation, contractor to the atomic energy commission



Vol. VI, No. 3

ALBUQUERQUE, NEW MEXICO

JANUARY 29, 1954

It'll Be Back to Books for Sandia Evening Students

Saturday, Feb. 6, is the day you register if you're planning to go back to college next semester.

The sign-up for University of New Mexico evening classes, both credit and non-credit, will be next week Saturday from 2 to 5:30 p.m. in Mitchell Hall. Instruction begins the following Monday, Feb. 8.

Fees for credit courses are based on the rate of \$12 per hour for all students carrying seven hours or less. Fees for the non-credit classes range from \$7 to \$20 per class.

Complete information concerning any phase of the Community Evening College program, credit or non-credit, may be obtained by calling 7-8861, ext. 208. The Community Evening College office is located in the Administration Building, second floor, on the campus. The office is open from 6 p.m. to 8 p.m. Monday through Thursday and Saturday from 8 a.m. to noon beginning Feb. 1 and ending March 6.

A limited supply of Community Evening College catalogues is available in Employee Services Office in Bldg. T-301.

President McRae Will Speak to Engineers Society

The largest gathering of professional engineers ever held in New Mexico will meet Feb. 20 to hear a talk by Corporation President James W. McRae, principal speaker at the annual banquet of the New Mexico Society of Professional Engineers.

The banquet, slated for the Hilton Hotel, will conclude the society's annual convention. Introducing President McRae will be A. Burton Metzger, 3170, toastmaster for the evening.

The convention will combine a meeting of the New Mexico Society of Professional Engineers and a meeting of the National Society of Professional Engineers' board of directors.

Among those engaged in planning the event is Kenneth G. Overbury, 1312, vice president of the Albuquerque chapter of the New Mexico Society of Professional Engineers.

Bill Ragsdale's Fight with Polio Is A Story of Determination, Compassion

Bill Ragsdale had the will to win—and he had the help of his home town people.

William C. Ragsdale, formerly of the Sandia AEC Field office here for four years, was a polio victim in August, 1952, and suffered most severely from the crippling disease. The road back to the place where he could lead a near normal life has been long.

Today, thanks to his strong will and the help of the Bernalillo County chapter of the National Foundation for Infantile Paralysis, Bill is again working.

After six months of treatment in the Veterans Hospital in Albuquerque, Bill was transferred to Gonzales Warm Springs, Texas, where he convalesced. He has lost the use of his left arm and shoulder, but can walk without orthopedic devices.

Now a part time radio operator for Station KAND in Corsicana, Tex., he writes to the SANDIA LAB NEWS to encourage all of us back

Of Porchlights and Polio

The city-wide Mothers' March will be tonight from 7 to 8 and householders are asked to "light the light" to fight polio.

Turn on your porch light during the specified hour and a March of Dimes representative from your neighborhood will call for your contribution to the National Foundation for Infantile Paralysis.

Chairman of the Sandia Base Mothers' March is Mrs. E. L. Saenger, who will be assisted by many military and Corporation wives.

Three Awards for Red Feather Work Made to Sandians

Among Albuquerqueans honored Jan. 18 at the annual Community Chest awards meeting were these Sandians: Timothy Shea, Vice-President and General Manager of the Corporation and first vice-president of the Albuquerque Community Chest, and R. J. Hansen, 2200, who directed the laboratory's 1953 Red Feather drive.

Fred B. Smith, who left Sandia late last year to become Works Comptroller at Hawthorne Works in Chicago, Ill., was similarly honored.

Awards were made at Southern Union Gas Co.'s hospitality room.

Brian Finley Heads Loma Alta Community Civic Organization

Installed as president of the Loma Alta Civic Association recently was Brian H. Finley, 3151.

Another officer elected to serve with Brian is Paul Kuhn, 5351, vice-president and program chairman.

The organization aims to bring the problems of northeast Albuquerque to attention of city and school officials and to promote traffic safety, parks and recreation facilities in the area. The association includes the territory bounded by these streets: Constitution, Eubanks, Candelaria and Louisiana. Meetings are open to all residents of that area.

Next gathering of the Loma Alta group will be at 7:30 p.m., Thursday, Feb. 11, at Inez School.

Famed Names Found on Roster Of Electrical Engineer Group

Thomas Alva Edison could be at the head of the table. At his right hand Alexander Graham Bell and at his left Charles P. Steinmetz. Grouped around the table: Guglielmo Marconi, Cyrus Field, Donald A. Quarles, and Herbert Hoover.

Impossible, of course.

But if it were possible, these men would probably be meeting for only one purpose—to discuss the business of the American Institute of Electrical Engineers.

Each in his time was a president, officer or honorary member of this organization, today the largest technical society in the world.

World-Wide Membership

There are upwards of 50,000 members in the AIEE and while the Institute is designated American there are members spotted around the globe. Brazil has 111, there are 365 in India, 429 in Great Britain, 44 in the Union of South Africa, there's even one in Paramaribo, Surinam. Members work in a total of 80 foreign countries plus all the United States possessions.

Electrical development was in its infant stage when the AIEE was founded in 1884. An inkling of what the future might bring spurred that early group of electrical pioneers to unite and pool their knowledge.

Since then the Institute has written an important chapter in the history of electrical engineering. Just as there are members involved in every conceivable phase of electrical work, so the AIEE has working committees studying everything from communication switching systems to analog digital converters.

Giant Organization

The giant AIEE organization is broken down into 10 Districts with varying numbers of Sections to each District. In addition, many of the Sections branch into Sub-Sections. There are 100 Sections and 55 Sub-Sections in the United States.

The Northern New Mexico Section of the AIEE came into existence on January 25, 1951. Previously local members had belonged to the Albuquerque Sub-Section of the New Mexico-West Texas Section. However, with the growth of Sandia Corporation and the local electrical industry and the subsequent influx of electrical engineers it soon became evident that Section status was needed.

Among the engineers sparking the move to form the Section were three Sandians—Earl Craven, 2443, Curtis Biggs, 1650, and Michael Favia, 1313.

High Qualifications

According to Earl, who is the present chairman of the Section, it took more than a year before inde-

Continued on Page 5

National IRE President Set To Present Talk

William R. Hewlett, national president of IRE for 1954, will address members of the Albuquerque-Los Alamos Section at the Feb. 5 meeting in Room 122, Mitchell Hall, University of New Mexico.

The February meeting is being sponsored by the newly organized Professional Group on Microwave Theory and Techniques. Mr. Hewlett, who spoke here in 1950 and 1951 before the Section, has chosen "Errors in Impedance Measurements in the Microwave Frequency Range" as his topic. The talk will begin at 8 p.m.

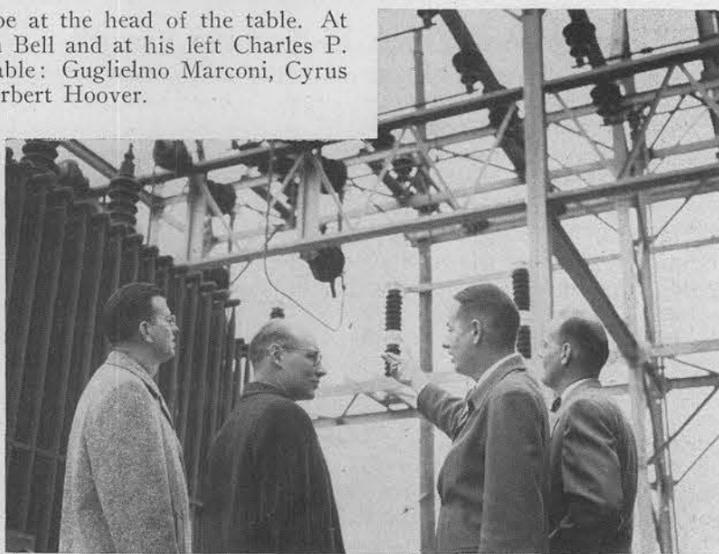


Photo by Hodges

TRANSFORMERS in a power station provide a fitting background for these AIEE members. L to R: Curt Biggs, Neith Pollard, Earl Craven, and John Ansley.

Sandia Atomic Weapons Program to Be Discussed in Boston by Mr. MacNair

Walter A. MacNair, Vice-President in charge of Research, Sandia Corporation, will speak to the Boston Section of the American Institute of Electrical Engineers Feb. 9. He will

while holding the position of Military Systems Engineering Director for Bell Telephone Laboratories.

Joining the Bell Telephone Laboratories in 1929 he devoted his efforts to various fields of physical research. During World War II he was awarded the Presidential Certificate of Merit for his contributions to national defense.

Among the professional societies of which Mr. MacNair is a member are the American Physical Society, the Acoustical Society of America, the Franklin Institute, and the American Association for the Advancement of Science. He is also a member of Phi Beta Kappa and Sigma Xi, national honorary science fraternity.

Laboratory Medical Department Receives IMA Certification

Sandia Corporation's medical program has been certified by the American Foundation of Occupational Health. Word of the certification was received by James W. McRae, Sandia's President, from Dr. Kieffer Davis, secretary for the trustees of the foundation.

In his letter Dr. Davis wrote, "Certification by the Industrial Medical Association denotes the fact that your medical organization is among those in the United States which have arrived at a definite goal in the establishment of a constructive health maintenance program."

"The quality of this health program is a tribute both to the interest of your management and to the competence of your medical organization in the protection and conservation of the health of your employee body."

The American Foundation of Occupational Health is an educational trust established by the Industrial Medical Association in 1945. Certification followed a visit by a representative of the IMA who surveyed and evaluated the Sandia Laboratory medical and health services.

Dr. Frederick G. Hirsch is medical director for Sandia and on the staff are Dr. Charlotte M. Beeson and Dr. Walter F. Hein.



Walter A. MacNair
"the atomic weapons program"

discuss the program of Sandia Laboratory and tell of its position in the atomic energy weapons program.

To Tell of Work

Using the title "The Atomic Weapons Program in New Mexico", Mr. MacNair will expand his remarks to include brief comments about the Los Alamos Scientific Laboratory as well as Sandia Corporation.

He will explain how Los Alamos concentrates on the development of nuclear components while Sandia develops the non-nuclear components necessary in building a complete atomic weapon around the explosive heart.

Included in his talk will be references to the Armed Forces Special Weapons Project, with headquarters at Sandia Base, and the Air Force Special Weapons Center at Kirtland Field.

Was Sandia Consultant

Mr. MacNair has been closely associated with the atomic weapons development program since Sandia Corporation was formed in 1949. Prior to becoming an officer of the Corporation in 1952 he served as a consultant to Sandia Corporation



W. C. "Bill" Ragsdale
—with determination and help of friends he won—

here in Albuquerque to help make the March of Dimes Campaign a success this year.

Bill's address is 1020 N. 23rd St., Corsicana, Tex., and he would like to hear from his old friends—and asks them to remember what the March of Dimes funds did for him.

SANDIA LAB NEWS

Friday, January 29, 1954

Published every other Friday for the employees of Sandia Corporation, contractor to the Atomic Energy Commission.

Editor, Robert S. Gillespie
Assistant Editors, William A. Jenkins, Maxine Ethridge

Photography by Photographic and Reproduction Division

Contributions should be in the office of the Sandia Lab News, Employee Services, Training and Public Relations Department, Bldg. T-301, before noon of the Friday prior to day of publication.

Telephones: Sandia Base Extension 25253 or 26135



"A Corporation Which Makes No Profit"

In the business world it is unusual that you can point to "a corporation which makes no profit." But in the case of Sandia Corporation you can do so.

James W. McRae, President of Sandia Corporation, told about our company in a recent speech before the Albuquerque Kiwanis Club. Here are a few of his remarks:

"There is no profit and no management fee (for operating the company), the whole operation is done by the Bell System as a public service and in response to a specific AEC request . . .

"Let's put the spotlight for a moment on the people of the Corporation. . . . Sandia Corporation has presently about 5300 employees. About 1100 of these are women and 4200 men. . . . They are a young group—their average age is only 34 years. Quite a few of them have impressive abilities as scientists, engineers or as management professionals. Roughly 1700 of the 5300, nearly one-third, fall in these categories. Another one-third are administrative and clerical and an equal number are production workers and technicians. . . .

"Some 1500 of our employees are college or university graduates, of which more than 200 have masters degrees and more than 50 have Ph.D.s.

"In 1949 Sandia Corporation had just been formed and had fewer than 1800 employees. Now, four years later, it has trebled in size . . . we expect to stay at about our present size. We see no reason for growing much larger. . . .

"Our impact on the economy of the state is difficult to determine . . . there is our \$28,500,000 a year payroll . . . there are many purchases placed with New Mexican firms . . . we must conclude that Sandia Corporation is a very significant part of New Mexico's new economy.

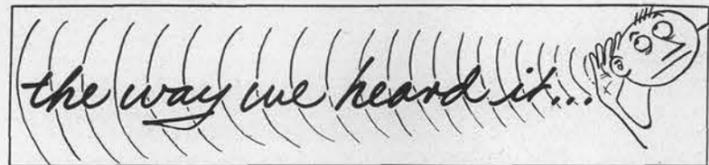
"Looking to the future I can sum up our job in Sandia Corporation like this:

"To continue to improve our ability to contribute efficiently to military preparedness through our work on atomic weapons;

"To search out ways to make the Corporation an even better place to work in;

"And to remember our obligations as an important element in the economy of Albuquerque. . . .

"I have already learned enough about our 5300 people to be proud of being an employee of the Corporation and I have every confidence that our future record will be even better than the past."



The Shadow Knows!

Next Tuesday, Feb. 2, will re-echo the old American legend of Groundhog Day. Our scouts in the library tell us the Yankee version originated with Pennsylvania Germans: if the groundhog comes out of his hole into a bright, sunshiny day, he sees his shadow, becomes frightened and returns to his nest, thus signifying six more weeks of winter; if, however, the groundhog rolls out into a cloudy day he just stays out—and that means, let's live it up, boys, winter's over!

Bottle Brigade

Two seventh grade students from Monroe School canvassed their neighborhood on a recent Saturday collecting trade-in bottles for the March of Dimes. A helpful housewife donated her share, then told the girls about a garage down the street "that's simply loaded with coke and pop bottles."

The youngsters had visions of a big haul until the lady's directions indicated that the garage was their own where they'd been stacking bottles since early that morning! (Incidentally the "take" from their day's work put more than \$20 into the polio fund.) The youngsters are children of Sandia employees.

Blanket Policies

Add to hazards of this electronic age: the F. L. Bencoters (he's in 1263) found their new dual-control electric blanket was most comfortable. One night Mr. Bencoter found himself chilly and turned up his control; his wife was too warm, and turned hers down; then he detected a new chilliness and turned his control up to the top. His wife was stifling so she turned hers off. They finally discovered that the controls were reversed.

No Pipe Dream

The pros and cons of the current tobacco controversy don't faze William Peters, 2417, one whit. "Pete" figures his liking for a pipe is the reason he's now back on his job at the motor pool. He had a hunting accident last deer season and a tobacco can in his shirt pocket probably saved his life.

Pete accidentally dropped his gun on a rock ledge and the hammer fell, sending a bullet toward his chest. The tobacco can deflected the bullet into his arm. Even though the Sandian had to spend almost two months in the hospital getting his arm and shoulder patched up he feels he's pretty lucky. "Guess I owe a lot to that little old can of tobacco," Pete says.

around the departments

News from 3153: Lucille Graham recently moved into her new Weeks home at 9329 Shoshone Road NE; Joanne Szymanski has returned to work following a week's illness.

Jack L. Tischhauser was welcomed back to 5242 recently after recuperation from an emergency appendectomy, January 4.

Leon W. Gottschall, 1521-3, is expected to return to work shortly after recuperating from injuries sustained in an automobile accident near Danbury, Nebr., several weeks ago. Leon received a broken collar bone and rib fractures and was hospitalized for a time at McCook, Nebr.

Ed Bauer, 5133, and his wife have returned from a vacation with her parents in Long Beach, Calif.

Taking the advice that "winter vacations are better than winter," Walter J. Burns, 2223, went to Phoenix, Ariz., for a warm holiday. Owen Buck, 2223, spent his vacation "loafin' and sleddin'," and Ramon C. Garcia, 2223, reports he caught up with odd jobs at home while taking a week's vacation. Frank Leyba, 2223, took a week off to be with his wife who was hospitalized at Santa Fe.

Recently enjoying a 10-day vacation at his home in Chattanooga, Tenn., was 5111's Carter Broyles.

Frances Berry entertained the girls from 1633-1 at a stork shower honoring Yvonne Bosen recently. Attending were Ferne Saylor, Lola Jean Widholm, Cecile Hawk, Viola Barcela, Sarah Brown, and Dorothy Carmichael.

Congratulations

Born to: Mr. and Mrs. Carl Carlson, 5133, a daughter, Bethany Sue, Jan. 9.

Mr. and Mrs. Raymond J. Slezak, 1261, a son, Frederick, Jan. 18.

Mr. and Mrs. C. V. Osborne, 1261, a daughter, Jan. 18.

Mr. and Mrs. Harry R. Roberts, 5423, a daughter, Robin Harriet, Dec. 22.

Mr. and Mrs. C. P. McMurtrey, 2452, a son, Curtis Wayne, Jan. 16.

Mr. and Mrs. W. J. Howard, 1330, a son, Andrew Jay, Jan. 17.

Mr. and Mrs. Dave Clenny, 2112-1, a daughter, Jan. 9.

Mr. and Mrs. Ted Perlman, 1632, a daughter, Anne Elizabeth, Jan. 10.

Mr. and Mrs. M. W. Davis, 5142, a daughter, Linda Joan, Jan. 12.

Mr. and Mrs. R. C. Swyers, 5143, a daughter, Kathleen, Jan. 18.

Mr. and Mrs. Roy Meyer, AEC, a son, Allan Erich, Jan. 9.

THANKS From March of Dimes

"Please extend my thanks to all who assisted or participated in any way," says a letter to Mr. Timothy E. Shea, Vice President and General Manager, from R. P. Conway, Campaign Director for the March of Dimes, Bernalillo County.

"Your wholehearted support of The March of Dimes Campaign has been an inspiration to the entire community. . . . Your presence at our kick-off TV show, the splendid publicity provided through The Sandia Lab News and the excellent contribution made possible by the Coronado Club Bingo have contributed a great deal to the success of this campaign."

Walter Mook's new Snow home was one of the houses destroyed by fire last week. Walter, 1631, was preparing to move into the new residence, which was almost completed.

Marty Martinez, 2531-1, motored to Los Angeles with friends and attended the Rose Bowl game Jan. 1.

His co-workers in 2120 welcomed the return of Joe Langdon, 2124-5, who was away from his job recovering from a back injury.

Gilbert Lenert, 1643, and his bride, the former Ellen Arndt of Wauwatosa, Wis., are now at home at 3207-A 30th Place, Sandia Base, following their wedding, Jan. 8, at Bishops Lodge.

Matilda Ruppe, AEC, celebrated her January 7 birthday with a birthday cake presented by her co-workers.

Maynard Cowan, 5111, and his family have returned from a vacation in Kansas City, Mo.



A PICTURE from the family album of Elmer Ford, 2561-1, and Mrs. Ford. He is young George, who reigns over the Ford domain.



INTRODUCING the three Uribarri sons: Charles, left, age 9, John, 6½, and Lawrence, 2½. They are the children of Charles J. Uribarri, 2341-1, and he says this photo was snapped just before Christmas "when the three of them were on very good behavior."



FOUR generations of Fields. The picture was taken New Year's Day at the home of great-grandfather A. L. Field, left, in Hammond, Ind. With him are grandfather F. L. Field, father P. L. Field, 2551-2, and his son, Randy, 10 months old.



ON-AGAIN OFF-AGAIN emotions of a baby are a constant challenge to the family photographer. Here little Leida Rideout behaves very much as you would expect an 11-month-old to act. Her father, E. H. Rideout, 5243-2, caught the moods for posterity.



Salton Sea Photo

CHRISTMAS was a big day for Salton Sea youngsters this year. In addition to Santa Claus' appearance, a nativity play was presented by several children under the direction of Mrs. Harry Schnarr, wife of Harry Schnarr, 2481-1. Alice Bump, 5214, was narrator for the presentation. Gifts for the 60 youngsters on the Base were purchased and those who helped wrap them were Mrs. T. A. Sprink, Mrs. L. R. Wilson, Mrs. Schnarr, Mrs. John Bashaw, Mrs. Joe Medley, Mrs. Stanley Pickens and Mrs. Verne McNabney. Ray E. Wason, 5214, played Santa Claus.

People and things
But usually people

Accidents Don't Happen

What caused the injuries received by Sandia Corporation employees last year?

The question should not be "what?" —it should be "who?"

People caused the preponderance of accidents, not things.

An analysis of our injury experience during 1953 substantiates this statement—people, not things, caused

most of the accidents. The finger of guilt can be pointed at unsafe practices, the result of haste, carelessness and forgetfulness.

List of Causes

Here are a few of the injury causes disclosed by the analysis:

A door bolt was slammed on a finger.

Heavy lumber was dropped on a foot.

Careless haste prompted a tumble.

A step on an extension cord twisted a knee.

Improper lifting resulted in a back strain.

Steps from a platform were ignored, a jump hurt an employee.

A bump on the head resulted from a file drawer being left open.

Scrap parts were being thrown into a bin, one piece thrown too hard overshot and struck a man.

Here's the Proof

Should there be any question in your mind as to the need for using safety equipment ask these men.

Ask Clifford C. Savage, 2122-1, if you should wear safety glasses while soldering. His glasses, the safety type issued to him by the Corporation, probably prevented serious injury when solder splattered on one of the lens.

If you have any doubt as to the need for wearing safety goggles while walking through "Goggle Areas," you may ask Andres Romero, 2122. A hacksaw blade snapped and a piece of metal flew up against his goggles as he was traveling through one of these areas. The lens cracked but Andres can smile as he looks through both eyes and tells you that safety equipment pays.

Electricians Too

Electricians wear safety glasses? Why? What hazard is there to the eyes of an electrician?

Calimero J. Lucci, 2411, can give you a very good answer based on his own experience. A serious eye injury was avoided when his screwdriver caused an arc as he worked with a switch box. Safety glasses



Andres Romero
—flying hacksaw blades—

stopped a piece of molten metal just short of his eyeball.

Safety shoes may be purchased at cost price from the Safety Store in Bldg. 857. What good are they? Ask Joseph Tilley, 2411, what he thinks of them. He was spared a serious toe injury just because he had the foresight to wear them.

Analysis of our 1953 experience further disclosed that, although many people are inclined to believe there are no hazards among office workers, more than 15 per cent of the total injuries were sustained by employees engaged in such operations.

The Price Is the Same

There are no major or minor accidents. The price of either type is the same—it is paid in pain and suffering. Many accidents which could have resulted seriously or even fatally, resulted in only minor injuries and in some cases, resulted in no injury at all. There is no guarantee, however, that a recurrence of the same type of accident will have similar fortunate results.

An interesting example of this is the case of Bobby Leach, the first man to go over Niagara Falls in a barrel and live to tell the story. He was killed as the result of slipping on an orange peel.

Accidents can be controlled, but once they happen it is practically impossible to control the seriousness of the resulting injury. For this reason, all accidents are analyzed. Only in this manner can we obtain a true picture of our safety performance and take the necessary action.

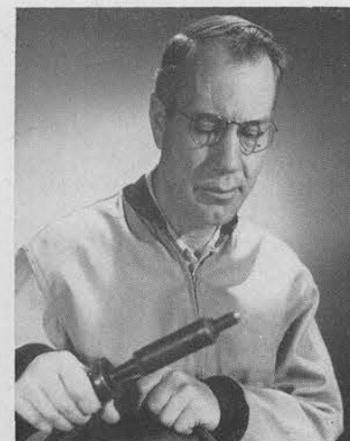
Let us continually bear in mind that no job is so important and no service is so urgent that we cannot take time to perform our work safely. And remember, too many accidents are caused. Not all of them happen.



Calimero J. Lucci
—molten metal flying—



Joseph Tilley
—he wore safety shoes—



Clifford C. Savage
—an eye is saved—



There are no smiles when you come home injured.

Photo by Hodges

Charade Parade Plus Rippling Rhythm To Be Month's Two Top Club Events

The world-famous Rippling Rhythm of the Shep Fields Orchestra will be heard in the Coronado Club Saturday, Feb. 20, as the Club presents its feature entertainment event of the month.

Pantomime Game

The Fields Orchestra will perform at an informal dance from 9 to 1. Reservations will be made at the time of ticket purchase. Admission is \$2 per member.

Another starring feature of the month will be a Charade Parade at the Family Time evening, Sunday, Feb. 28. The program will feature an hour-long comedy game of charades between members of the Toastmistress Club and the Toastmasters Club.

The unrehearsed show will be held from 7:30 to 8:30. It's free to everyone and guaranteed to provide fun and laughs.

Chock Full o' Dances

Five more dance nights are on the Club calendar for February, plus the informal dance to the music of Don Lesman scheduled for tomorrow night.

On Feb. 13 the Al Hamilton Orchestra will appear from 9 to 1 and on Feb. 27 Don Lesman will be at the Club again for another informal dance from 9 to 1.

The Club's monthly buffet-dance is on the calendar again, this time slated for Sunday, Feb. 14. The MBC Trio will perform. Dinner and dancing will be provided at \$2 per member.

The Duke City Cowboys are set to stomp and holler at the two square dances to be held on Friday, the 12th and the 26th. The time is 8:30 to 11:30, the charge is 50 cents per person.

Meanwhile, on those two evenings organist Charlie Biesel will perform

in the Cocktail Lounge from 7 to 11 p.m.

Learn the Mambo

The other two Friday evenings in the month, the 5th and 19th, will be devoted to Arthur Murray ballroom dance instruction from 8 to 10 p.m.

Duplicate bridge is scheduled for every Thursday night from 7:30 to 10:45 at 40 cents per person and square dance instruction is planned for the first three Monday nights in February from 8 to 10.

Bingo Nights are to be on the 3rd and the 17th starting at 8 p.m. Ladies afternoon bridge and canasta is on the 10th, from 1:15 to 4 p.m. with a charge of 25 cents per player.

Promotions

WALTER D. WOOD to division supervisor, 5132. Walter joined us in October, 1952, after earning his



Ph.D. in mathematics at Purdue. While there he also taught undergraduate mathematics. Walter earned his M.S. degree in math at Oberlin College and prior to that spent a year teaching and engaging in astronomy research at Case Institute of Technology. A veteran of three years in the Navy, Walter spent two of those years under the V-12 program at Case Institute earning his B.S. in mechanical engineering.

Civic Symphony Ball Will Honor Director Lange

Tickets are available until Feb. 8 for the Civic Symphony Ball which will be held Saturday, Feb. 13, in the Hilton Ballroom.

The ball, one of Albuquerque's gayest social events of the season, this year honors Dr. and Mrs. Hans Lange and Mr. and Mrs. John B. McManus. Dr. Lange has been director of the symphony for several years and Mr. McManus is president of the board of directors.

Sandians who are members of the orchestra include Mrs. Ruth Grothe, wife of Martin Grothe, 3221; Mrs. Naomi Goodman, wife of Wolfe Goodman, 1242; Philip D. Wesson, 6000; and Gilbert B. Lenert, 1643.

Among Sandia Corporation and AEC families who are active in civic symphony work are these ladies who have tickets for sale:

Mrs. Philip D. Wesson, Mrs. Daniel F. Worth and Mrs. D. Maxwell Ellett. Mrs. Ellett is chairman of the decoration committee and Mrs. Robert E. Poole, Mrs. Richard Coiner and Mrs. Wesson are assisting as members of that committee.

Other Sandia Base representatives who have tickets for the ball are Mrs. W. V. Davis and Mrs. Coiner.

Why Plumbers Grow Old

Patsy Garrett, 2231, says ceramic work is a lot of fun, but sometimes turns out to be rather expensive.

One day recently Patsy had to call the plumber—"Madam," he said, "who would ever pour cement down a kitchen sink?"

Ernest Abeyta Back From Service with Eleventh Marines

Ernest Abeyta, 2231, returned to the Corporation recently after two years in the Marine Corps.

The ex-Leatherneck came here originally in Dec. 1950 and a year and two days later he became a Marine. Ernest served as an artil-



Ernest Abeyta
—earned battle stars—

leryman with the 11th Marines, First Marine Division.

He trained at Cherry Point, N.C., and Camp Pendleton, Calif., and then went to Korea where he served for a year and a month.

In Korea Ernest earned three battle stars.

He was discharged on December 3, 1953, and came back to work in his old division about a month later.

Ernest is single and lives with his brother, Charles, 2541, a veteran of World War II.

Women's Club Sponsors Polio Benefit Dance

The Sandia Base Woman's Club tomorrow night is sponsoring a March of Dimes Benefit Dance from 9 to 1 a.m. at the Officers Club.

All proceeds will go to the polio fund.

Co-chairmen for the event include Mrs. L. A. Hopkins and Mrs. W. V. Davis. Theme of the evening will be "Paris"—and the ladies say the Parisian floor show will be a highlight of the entertainment.

Mrs. J. D. Yates is heading up the committee for the "milk bottle drive" for the March of Dimes at the club. For the past two weeks milk containers, each representing a state, have been set in the lobby of the Officers Club. The winning "state" will be announced at Saturday's dance.

Among other members of the dance committee are Mrs. F. B. Phillip, Mrs. J. Garrett, Mrs. B. J. Robison, Mrs. G. E. Austin, Mrs. C. E. Dubois, Mrs. W. E. Gernert, Mrs. R. E. Poole, and Mrs. T. Robinson.

Basketball Standings

Team	Won	Lost
Hoosiers	8	1
Spartans	6	2
Boilermakers	6	2
Wildcats	6	2
Gophers	5	3
Irish	4	4
Hilltoppers	4	4
Buckeyes	4	4
Illini	3	5
Badgers	1	7
Lee Schulz, Gophers	1	7
Arnold Schuknecht, Boilermakers	0	8

LEADING SCORERS

Name	Team	FT	FG	Total
Al Schonberg	Boilermakers	23	38	99
Paul Jennings	Wildcats	10	42	94
Eloy Barela	Buckeyes	13	40	93
Frank Comiskey	Spartans	8	38	84
Bob Neeld	Irish	14	33	80
Wayne Hancock	Hoosiers	10	33	76
Lee Schulz	Gophers	13	30	73
Arnold Schuknecht	Boilermakers	12	30	72
Dave Hill	Irish	7	31	69
Harold Thomas	Wildcats	7	31	69

Donald MacKenzie Planning To Teach Patent Law Course

A course designed to teach the man with an idea how to keep it and how to profit by it will be offered at the University of New Mexico's evening college starting Feb. 11.

Course for Inventors

The teacher will be Donald MacKenzie, 6010, Patent Manager. The course will be on Patent Law and Proceedings for Inventors and will instruct prospective inventors on how to proceed to obtain a patent and what can be done with it after it is granted.

The non-credit 12-week course will be taught every Thursday evening from 7 to 9 in room 110, Mitchell Hall. The fee is \$10.

Registration is open every Monday, Tuesday, Wednesday and Thursday from now through Feb. 11 in room 208 at the University's administration building. Registration hours are 6 to 8 p.m. and on Saturday, Feb. 6, from 2 to 5 p.m. at Mitchell Hall.

Long Patent Experience

A patent agent registered to practice before the U.S. Patent Office, Mr. MacKenzie has been engaged in engineering and patent procedure activities with Bell Telephone System for over 30 years.

He has an L.L.B. degree from LaSalle University and received a Ph.D. from Johns Hopkins University.

Purdue Alumni Will Meet Here Feb. 17

Purdue University alumni will have an opportunity to see motion pictures of the Purdue-Michigan State football game of 1953 when they meet in Albuquerque Feb. 17.

Guests at the Purdue dinner meeting at the Skyline Club will be Frank Hockema, vice-president and executive dean of the University, and Ethridge B. Baugh, executive secretary of Purdue Alumni Association.

Dinner will be at 7 p.m. and the business meeting at 8 followed by the film. Alumni who are unable to attend the dinner are invited to attend the business meeting.

Dancing and visiting will close the evening. Tickets for the dinner may be secured from members of the local Purdue alumni club.

Speaking of Reporters

An active SANDIA LAB NEWS reporter from 4131 is Claudine DeGuisseppi who joined the Corporation 18 months ago.

A native of New Mexico, Claudine was a reporter on her school news-



Reporter DeGuisseppi

papers when she attended Washington Junior High and Albuquerque High here.

"One of the reasons that I enjoy my reporting at Sandia so much," Claudine explains, "is that I'm constantly running into people I went to school with. I haven't seen some of them for years and it's interesting renewing acquaintance with them."

Claudine lives with her husband and small daughter, Debra Ann, at the family's home, 1316 Somervell St. NE.

Antique Firearms Collection to Be Featured by Club

A collection of antique guns, some of them dating back to the early 1700s, will be discussed by the owner, Floyd McGimzey, at a meeting of the Arts and Antiques Club on Feb. 10, 8 p.m.

The club will convene at the home of Mr. and Mrs. Allen DeChenne, 510 Tulane Dr., SE.

Mr. McGimzey is a former gunsmith and a member of the New Mexico Muzzle Loader Club, formed by collectors of muzzle loading weapons.

Another feature of the meeting will be an exhibit of early frontier costumes by Richard Hicks.

Sandians interested in attending may contact Joe Heaston, 5212, ext. 37264, or Lee Deeter, 5430, ext. 28152.

Seek Women to Help Sandia Girl Scouts

In order to continue and expand the Girl Scout and Brownie program on Sandia Base more women are needed to serve as troop leaders.

The Albuquerque Girl Scout Council, of which Sandia Base School troops are a part, will offer leadership training classes next month.

The course will be given mornings at St. Mark's-on-the-Mesa church, from 9:15 to 11:15, and evening classes are offered at St. John's Cathedral, 318 Silver SW, 7:30 to 9:30. All classes will meet on these dates: Feb. 9, 11, 16, 18, 23, 25 and March 2 and 4.

Mrs. R. E. McCallum, neighborhood chairman, will provide information to interested persons. Her extension is 23286.

Wilson Maglidt Heads Local SAR Next Year

Another civic-minded Sandian is looking forward to a busy year—H. Wilson Maglidt, 1920, will be installed next month as president of the Albuquerque Chapter, Sons of the American Revolution, following his election last week.

Mr. Maglidt, in addition to heading the Albuquerque Boys Choir Association, was recently elected to the vestry of St. John's Cathedral.

From California

Salton Sea News

Jeanette Young, auditor for the Fred B. Prophet Co. on the Base, was married recently to Gordon Johnson of Brawley. They have purchased a new home in Brawley where Mr. Johnson is member of the faculty of the high school.

Harvey Harter, 5214, and his wife are welcomed to Salton Sea Test Base. They recently transferred from Sandia and are living in a San Felipe Lodge apartment.

Ray E. Wason, 5214, and his mother, who recently moved here from New York City, have moved into an apartment in San Felipe Lodge.

Back from Fairbanks, Alaska, Johnny N. Meinhart, Fred B. Prophet Co. employee, has started work for San Felipe Lodge. This is the third winter he has been working here.

Milton J. Lesicka, 2481-1, and his family spent the holidays with his brother Joe, whom he had not seen for five years.

Most successful hunter this season was James H. Hall, 2483-1, who vacationed for the sport and shot more geese than all other Salton Sea hunters combined.

Two new Oldsmobile 88s were driven onto the base recently. Loren Chambers and Tony Uszuko, both 2481-1, are the proud owners.

March of Dimes Bingo Party Adds \$335 to Polio Fund

The March of Dimes fund is \$335 richer, thanks to the efforts of a special bingo committee, local merchants and bingo players who helped the fight against polio at a special Bingo Party Jan. 20 at the Coronado Club.

Weather Limits Play

Stormy weather that evening limited the number of persons who turned out for the benefit game.

Albuquerque merchants who contributed prizes included Ed Kilian Agency, Paul's Lamp Shop, West Furniture, Butterfield Personal Service Jewelers, Campbell Drugs, Shepard's Gift Shop and Briggs Hardware.

Also Neis Hardware, Premier Florists, Eddy Hardware, Grand Liquor, Eckerts, Kurt's Camera Corral, Gus Patterson, Broome Furniture, Blueher Lumber Co. and National Bedding.

Prizes Donated

Brooks-Hanley, Dennison Coffee Co., Welch-Flaks & Co., Chas. Ifeld Co., Pelletiers, Crown Engineering, Stromberg's, San Mateo Drugs, Albuquerque Pet Shop, Sears Roebuck and Co., Sowell Pharmacy, Super Drugs, Barber's Super Markets, Korber's and American Furniture Co.

A. W. Fite, 1324, was committee chairman, assisted by L. E. Davies, 1325, W. C. Kraft, 2521, I. M. Moore, 1710, S. A. Moore, 1332, W. J. Denison, 1315, J. K. Merillat, 1913, R. H. Shultz, 1323, and C. F. Martin, 1324. In addition to the above committee the following members of the regular bingo group managed the games: Neil Hansen, 3152-2, Betty Newman, 3154, R. L. Culley, 5215-2, and E. P. Frasher, 1263.

Norm Keesling Comes Back to Sandia Job After Marine Service

Home from Korea and a three-year hitch with the U. S. Marine Corps is Norman Keesling who rejoined Sandia Corporation last week, assigned to 3125.

Norman was an ammunition sergeant in an artillery battery with the First Division, USMC, in Korea, and



Norman Keesling
—a Leatherneck's home—

upon his return to the states he joined the Second Division, USMC, where he saw duty at Camp Pendleton, Calif. Formerly of 2223, Norman lives with his parents in Albuquerque.

Norman says he received copies of the SANDIA LAB NEWS (Bulletin) while he was overseas and enjoyed them. "It was always good to have the Albuquerque news," he recalls.

Woman's Club to Hear Author at February Meeting

Col. Sidney Mashbir, author of the "I Was an American Spy" series in the Saturday Evening Post, will be the featured speaker at the February meeting of the Sandia Base Woman's Club.

Col. Mashbir, a member of the Army Intelligence organization, will address the ladies at their luncheon-meeting Feb. 18 in the Sandia Base Officers Club.

For 24 Years He Fought Fires—Now He Misses 'Those Red Engines'

"If you have never been one, or seen one work close up, or been hauled out of a 'furnace' by one, you have no idea of what it means to be a firefighter."

This is spoken with the authority of a man who spent 24 years battling fires in New York City.

Started Out in '29

In 1929 Jim Schenck, 2415, joined Engine Company No. 203, stationed on the waterfront at the lower end of Brooklyn. For years he fought warehouse fires, tenement fires, house fires, pier fires.

"The first one was a shop fire," Jim recalls. "It was a factory that collected and processed rags — there were mountains of them. I



Fireman Schenck

was still on probation with the Fire Department then and this was my first fire. It was a beauty—lasted all night."

The worst fire Jim fought in his entire career was a blaze in a rubber warehouse down by the docks. Before it was over it had spread to two other warehouses and involved 80 companies of firemen plus fleets of fire boats.

Subways Smoked

"That fire lasted 65 hours," says Jim. "I worked two solid 15 hour stretches on it. The smoke from that rubber was terrific. There was a subway air intake fan near the fire and before they found out that was the cause people were dropping like flies on subway trains miles from the fire."

During his years with the Depart-

Museum Expert Slated to Talk At PTA Meeting

Dr. Alma S. Wittlin, who is in charge of Albuquerque's Young Explorers Museum, will discuss "Why Junior Museums" at the next meeting of the Sandia Base Parent-Teachers Association, Monday, Feb. 8, at the base school.

Dr. Wittlin received her Ph.D. from the University of Vienna and has done postgraduate work abroad. Author of a book on museums that was published in London, she will soon see her work reprinted in America by the Oklahoma University Press.

Sympathy

His co-workers in 2223 extend their sympathy to Walter Redikar whose mother died recently.

Sympathy is extended to Virgil A. Harris, 5251, whose mother died recently in Ft. Collins, Colo.

Sympathy is extended to Vincent Domme, 2411, and Ed Domme, 4231, whose brother, Albert Domme, was killed Jan. 21 in an automobile crash near Laguna, N. M.

Her co-workers in 3162 extend their sympathy to Bernice Beeson whose husband died last month.

Our sympathy is extended to the Ben Bright family for the loss of their 10-months-old son, David Lee, on Jan. 15. Ben works in 1941.

His co-workers in 1940 extend their sympathy to Charles E. Runyan whose mother died Jan. 20 in Indianapolis. The Runyans left immediately for the funeral and planned to return to Albuquerque, Feb. 1.

ment Jim fought all kinds of fires. There were big fires like the rubber warehouse and freak fires like the store with the apartments above that had its walls popped off by an explosion leaving a cross-section view of everything burning merrily inside when the firemen arrived.

And there were heartbreaking fires like the riding stable where 38 horses burned to death.

Horses Behave

"Don't let anyone tell you about horses getting hysterics in a fire. Those horses stood there without a whimper while the flames wrapped right around them. When we got to them they followed us right out without any hesitation."

But most of the fires, the ones that took their toll of firemen's lungs and hearts, were those like the mattress burning and smoldering in a room at the end of a long smoke-filled corridor.

On his off hours Jim had a hobby. He calls it a selfish hobby but the placque he was awarded along with others at an Ebbets Field ceremony calls it "altruism."

Basketball Hobby

Jim's hobby was organizing and coaching boys to play baseball, football and basketball. He says it was selfish because he became interested through his son, but the hobby lasted for 18 years and his son is now a 26-year-old Merchant Marine officer.

Jim's two married daughters were living in Albuquerque when he retired from the Fire Department, so he came out here last February, joined the Corporation, and bought a home in town for himself and his wife.

"I like it out here," Jim says, "even though I've lived in a city all my life, I really like it out here—come to think of it, though, I guess I'll always be a little homesick for those big, red engines."

Sigma Xi Lecturer Slated at University

Dean Henry Eyring of the Graduate School, University of Utah, Salt Lake City, Utah, will be at the University of New Mexico Feb. 12 as lecturer for Sigma Xi in the 1953-54 lecture series.

Dean Eyring has chosen "Non-Linear Departures from Equilibrium" as his topic.

Remember to Make Your Polio Gift

Persons who have contributions for the Polio Fund, but who have not been contacted by a representative, may send the donation to either of these places:

Robert J. Hall,
March of Dimes Office,
Albuquerque National Bank,
1610 Fourth Street, NW,
Albuquerque, N.M.

or
Bernalillo County Chapter,
National Foundation for
Infantile Paralysis
1706 Central Ave., SE,
Albuquerque, N.M.

Weddings

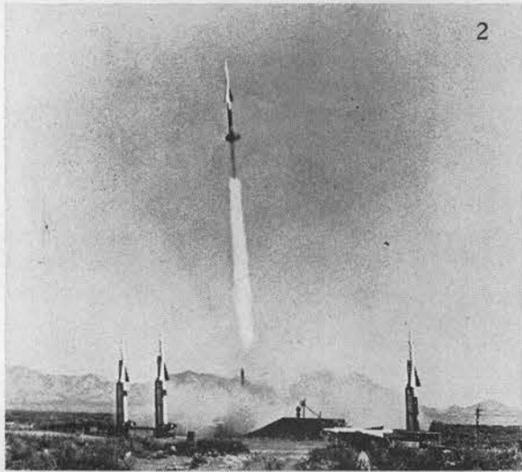
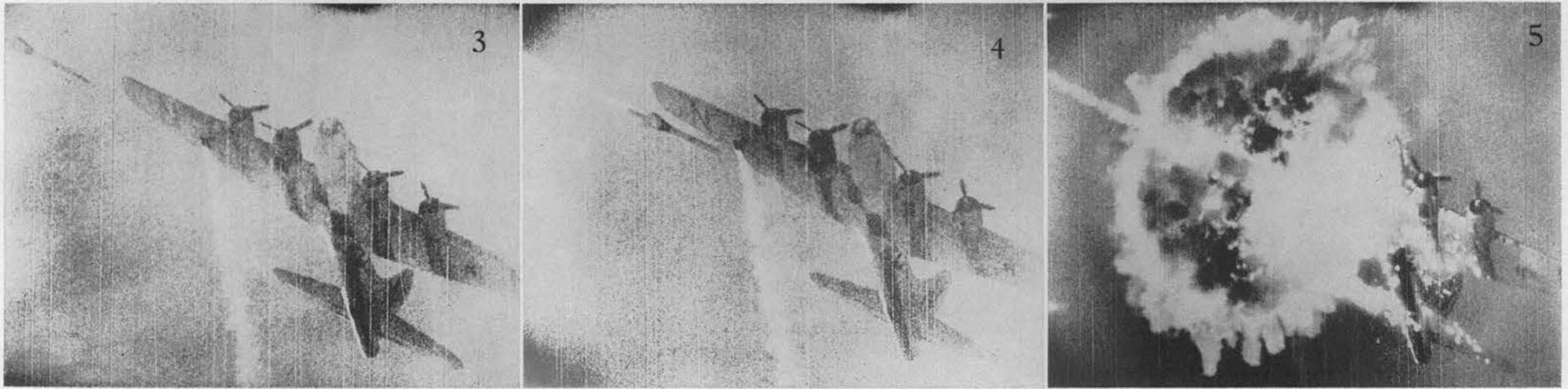
The wedding date for Irene Heck, 2461-3, and Sgt. Emiljan Kaminski, will be Feb. 6 with a morning ceremony in Base Chapel No. 2. After



Miss Heck

a brief honeymoon, the couple will be at home at 2626 Sierra Dr. NE in Albuquerque. Sgt. Kaminski is stationed at Sandia Base.

Nike - Greek Goddess of Victory - Lends Her Name to New U. S. Weapon



In operation the Nike battery (Fig. 1) is alerted by the air warning net that hostile planes are approaching the area. The target is picked up and tracked electronically. Meanwhile the Nike's missiles are readied in vertical position and a running account of the target's changing

position is transmitted through the controls.

When the target crosses Nike's distant and invisible deadline the missile is fired from its launcher (Fig. 2) by a remotely controlled missile-launching mechanism.

Getting its initial impetus from a booster rocket, the missile roars

through the sonic barrier within seconds after launching and it is propelled smoothly by its own rocket engine in supersonic flight.

Nike and the target converge (Figs. 3 and 4). At the precise instant of interception the missile explodes, destroying the attacker.

Bell Laboratories Planned the Weapon

Sandia Engineers Helped Develop Nike

The super-accurate, super-sonic guided missile, the Nike, which tracks down and destroys high flying bombers, for several years has been a familiar weapon to two Sandia Corporation officers

Robert E. Poole and Walter A. MacNair worked on the Nike when it was in the early stages at Bell Telephone Laboratories.

Mr. MacNair, who is now Vice-President of Research at Sandia, headed the Bell Laboratory Military Systems Research group which did the original planning and systems study of the Nike and carried the work through the research and exploratory phases.

At the end of this three-year period the job was transferred to the Military Electronics department of the Laboratories. It was then carried on as a development project under the direction of Mr. Poole until his transfer to Sandia where he is now Vice-President of Development.

The deadly weapon is being made for the government by the Western Electric Company with Douglas Aircraft Company participating in many important features of the project.

The Army says this about the Nike:

It can outmaneuver bombers, fighters and transport planes.

It can operate in any weather.

It is mobile, can be transported by trucks or by air.

It is fired by remote control mechanisms.

To provide maximum safety the warhead is constructed so that it will explode only in flight.

The missile is liquid fueled, is about 20 feet long, one foot in diameter, has approximately a million and a half individual parts and uses two sets of fins for guidance.

Inside its aerodynamic body is an explosive warhead, a rocket propulsion unit and guidance equipment.

ASQC Members Move to Secure Section Charter

The final move in a plan to form a New Mexico Section of the American Society for Quality Control was made this week when 25 members-at-large applied to the society's national headquarters for a charter.

The ASQC, according to organizing committee chairman Phillip Bircher, 1512, is a national organization designed "to create, promote and stimulate interest in the advancement of the science of quality control and its application to industrial processes."

At the meeting on Wednesday, Jan. 27, Aldis Hayes, 1512, presented a talk, "Statistical Quality Control—What Is It?"

Los Alamos members will attend a meeting scheduled for Feb. 16 at the University of New Mexico's mechanical engineering building, 8 p.m., it was announced. The speaker will be Harold F. Dodge, quality results engineer with Bell Telephone Laboratories.

Hugo Flores Honored By American Legion

Hugo Flores, 2452, commander of American Legion Post 72, was one of two Albuquerqueans honored by the Legion last week for efforts in Americanism and service to veterans.

Hugo, an ex-Marine who joined Sandia Corporation three and a half years ago, announced that safety-education month would be stressed in February in cooperation with Governor Mechem's proclamation.

Chess Problem

For Sandians who are chess enthusiasts, we present a problem designed to test their imagination and foresight.

The problem: White is to move and mate in three moves.

Black — 3 Pieces (underlined>

					B	<u>K</u>
						P
K			<u>B</u>			P
<u>B</u>						
<u>P</u>						R
						Q

White — 7 Pieces
Solution on Page 6

Phi Kaps Stage Reunion

The Albuquerque Chapter of Phi Kappa Sigma fraternity will hold a dinner meeting in the Pine Room of the Hilton Hotel Feb. 9 at 6:30 p.m.

All fraternity members are invited. Arrangements to attend may be made by contacting Val Hoffman, 1623, at ext. 32245 or Meade Arbogast, 2112, at ext. 22136.

Fifty Thousand Members In AIEE - Largest Technical Group

Continued from Page 1

pendent status was achieved.

"Each prospective Section," he says, "must qualify according to stringent AIEE standards before the right to form a completely new Section is granted."

The Section meets regularly twice a month for about 10 months of the year. The meeting place is most often the University of New Mexico's mechanical engineering building.

The programs are designed for variety. At one meeting members toured an old disused Public Service power station. "It was practically a museum of rare electrical antiques," recalls Curt Biggs.

At another meeting Westinghouse Corp. presented a full-fledged science show revealing in dramatic form some of the newest aspects of electrical development.

Special Speakers

At other times out-of-town or local speakers are featured. For instance, K. K. Darrow, a famous author of technical books, spoke on "Magnetic Resonance" and a few weeks later Corporation Medical Director Fred G. Hirsch talked about the "Biological Aspects of Ultrasonics." The president of Illinois Institute of Technology, Dr. John T. Rettallata, came here once to talk on "Electrical Problems with Jet Engines."

"Student members of the AIEE are regular participants in our meetings," says Chairman Craven, "as are members of other technical societies. It's the best testimony I can think of to the interest generated by these programs."

Last year the Section's prestige

soared when, in an unprecedented move, the local AIEE was requested through the office of New Mexico's Governor Mechem to select a man for the State Board of Professional Engineers.

This Board passes on applications for registration as professional engineers in New Mexico. It's a powerful post and picking its members is a heavy responsibility. After long consideration the AIEE chose a consulting engineer, Carl Albach, of

Santa Fe, for the post and the Governor accepted their recommendation. 200 Members Now

The present officers of the group represent a cross-section of the local electrical industry. Sandia Laboratory's Earl Craven is chairman, vice-president is Rex Tynes of Tynes and Loftin engineering firm, secretary-treasurer H. M. Hayes is with General Electric Co.

Program chairman is L. M. Swenson of Allis-Chalmers, technical

chairman is A. Loftin of Tynes and Loftin, Neith Pollard, 5413, is membership chairman; Gordon Harvey, 1262, handles publicity; student relations are under M. C. Heffelman of the New Mexico Public Service Co., and John Ansley, 1652, is arrangements chairman.

"There are more than 200 members in our Section," says Chairman Craven, "so far we've kept pace with the state and city growth. We don't intend to stop now."



IF IT WERE POSSIBLE for these men to meet together there would probably be only one reason for doing so — each of them is a former officer or honorary member of the American Institute of Electrical Engineers. L to R: seated, Cyrus Field, Alexander Graham Bell, Thomas Edison, Charles Steinmetz. Standing, Donald A. Quarles, Guglielmo Marconi, and Herbert Hoover.

shopping center

CLASSIFIED ADVERTISING

Classified advertising is printed in the Sandia Lab News as a service to Sandia Corporation employees and employees of the AEC on Sandia Base. There is no charge for publishing the advertisements.

Advertisements must be submitted in writing and contain the name, organization, home telephone number and base extension of the advertiser.

Each advertisement will be run one issue. Deadline: Friday noon, one week prior to date of publication.

Next Deadline: Noon, Feb. 5

FOR SALE—

TYPEWRITER, portable Royal Deluxe model \$50. Brown, Alb. 5-1222.

.22 HI-STANDARD target pistol and .22 rifle, \$20 for rifle, \$40 for pistol or \$55 for both. McSwain, ext. 3-6263.

EVERETT PIANO, large spinet, blond oak, \$650. Noe, ext. 3-3289 after 5.

RUG, 9 x 12. Wool with pad \$50; davenport and two chairs \$50; car top carrier, new, has plywood bottom \$8; electric iron \$3. Hall, 2708 Graceland Dr. NE.

1937 BUICK coach, good mechanical condition, good tires \$125. Hicks, ext. 2-4246.

ROLLEIFLEX, 3.5 lens, sync., case; Rolleicord, 3.5 lens, case and tripod. Poindexter, Alb. 3-7917 after 6.

TWO-BEDROOM HOME, \$500 down payment, \$6000, 115 Cacy Ave. NW. Martinez, Alb. 4-0205 after 6.

REGISTERED Cocker Spaniel puppies, 7 weeks old, blonds and buffis \$15 to \$25. Zaluga, Alb. 4-1564 evenings or weekends.

HOUSE TRAILER, 18-ft., sleeps 4, apt. size range \$300 or best offer. Gabaldon, Alb. 2-7396 evenings or weekends.

1937 PLYMOUTH. Strance, ext. 2-7156.

TWO BEDROOM home, 205 Gen. Chenault. Eskridge, Alb. 6-4712.

TRACTOR, 35-hp crawler, or will trade for pickup or jeep. Sons, 1938 Blake Rd. SW, Alb. 7-9073.

OR TRADE: lot near base, consider light truck, jeep, station wagon or small house-trailer. Smith, Alb. 3-3675.

1937 FORD, 60-hp, complete or motor from same. Marchbanks, 314 Candelaria Rd. NE, Alb. 4-3359.

MAMIYA 35-mm. camera, f-3.5 Seminar lens, viewfinder, etc., 1 to 1/200 sec. with case and 75 ft. B and W film; also Nikkon camera with f.2 Nikkor lens, retails for \$245, will sell for \$165; electric flat iron \$5. Hein, ext. 5-2198.

TWO BEDROOM F and S home with carport, shrubbery, wall and irrigation meter, G. I. 4% loan, assume wall payments, make offer for equity, immediate occupancy. Shreve, ext. 3-3140.

WOOL JERSEY dress, size 10, pale blue \$10. Shultz, ext. 2-9157.

1953 29-ft. WHITLEY house trailer, modern, large bath, completely furnished, all metal, tandem wheels, \$1000 and assume payments. Poore, 244 Utah NE, Alb. 5-0950.

IRONRITE ironer, almost new \$150; Maytag washer with double laundry tubs \$100. Gabriel, ext. 2-6145.

1947 MERCURY club coupe, R and H, good price. Gallagher, 3226 34th St., Apt. U, Sandia Base, ext. 3-4295.

ONE PAIR ski boots, size 10, never used, made in Boston by Sadler \$15 with ski trees. Stewart, 504 Arizona SE, Alb. 6-3976.

SOLID MAHOGANY combination dining-living room table \$35; walnut highboy cabinet \$25; solid cedar chest 54 x 22 x 16 deep \$25. Harris, ext. 3-6270.

TWELVE white flex-steel venetian blinds with plastic tapes, custom made for Snow home, cornice boxes and drapery rods, used only 6 months \$80. Weaver, 1325 Rhode Island NE, Alb. 6-5569.

MAHOGANY bedroom suite, twin beds, dressing table, dresser and night stand, complete with box springs and mattresses. Cordaro, 219 Quincy St. NE, ext. 3-2159.

E FLAT alto saxophone, Gold Bell, silver plated, built to order by York, extra high F key, \$175. Langley, Alb. 6-3282 evenings.

BEGINNER'S archery set, 30-lb. bow, 1 doz. arrows, arm guard, shooting glove \$10. Nielsen, Alb. 5-8989.

MAPLE BUNK BEDS, may be used as singles, one innerspring mattress, one spring \$50. Weaver, 1425 Roma NE.

1950 BUICK 4-door special, R and H, Dynaflo, new battery, good tires \$900. Carriaveau, 1709 Virginia NE.

HIAWATHA boy's bicycle, 26-in., heavy duty balloon tires \$20. Long, 2731 San Rafael SE, Alb. 7-8269.

DRESSING TABLE with mirror top and skirt \$10. Gowdey, Alb. 3-8216.

MAHOGANY double bed, spring and mattress; also boy's 26-in. bicycle, both at sacrifice. King, Alb. 5-9440.

BENDIX clothes dryer, electric, \$150. Russell, Alb. 5-9972.

REFRIGERATOR, Crosley Shelvador, 12-cu. ft. has separate freezer compartment, 18 months old, original cost \$515, will sell for \$295. Shock, 5417 Rosemont Ave. NE, ext. 3-7148.

CONTAX 35-mm. single lens reflex camera with two lenses, f-2.50-mm. and f-1.5 75-mm. telephoto, shutter speeds 1 sec. to 1/1000, cost \$763, will sell for best reasonable offer. Sisler, 3157 44th Place, Sandia Base, ext. 2-5173.

RADIO PHONOGRAPH, mahogany cabinet \$50; walnut coffee table \$8; baby crib, Kantwert mattress \$15; '37 Buick century \$75; Westinghouse Laundromat, needs some work \$25. Garner, Alb. 6-5392 after 5.

COIN COLLECTION, U. S. silver dollars, years 1878 through 1900, approximate value \$230, make offer for all or part, Smitha 8607 Menaul, ext. 3-2146.

BUNK BEDS, hardwood construction, G.I. type, ideal for children, \$19 total. Michonovicz, 933 Avenida Estrellita NE, Alb. 5-4729.

BUILDING SITE in Tijeras Canyon, 1.04 acres, about 1/4 mile from Hwy. 66, Manzano Mountains, \$850. Lane, Alb. 6-5335 anytime.

ELECTRIC HEATER with fan \$3; 2 pr. gluing clamps \$2.50; pruning shears \$1; good hair clippers \$2; lady's skis, bindings, poles \$7.50. Sherwin Alb. 5-8866.

TYPEWRITER, Remington Standard \$20. Jenkins, Alb. 5-1033.

1946 OLDS, 4 new tires and tubes, R and H, clean, first \$325 takes it. Stuart, Alb. 5-2930 after 5.

SOFA \$25; barrel back chair \$15; wing back chair \$15; all for \$50 including slip covers; also large desk or dressing table, natural finish \$50. Glass ext. 2-8190.

1942 OLDS 4-door, new seat covers and battery, good tires \$95; new Southwind automobile gas heater, never used \$30. Byrd, 1509 Wyoming NE after 5.

1941 PONTIAC 8, torpedo model \$90. Newman, 2708 Dakota NE, ext. 2-6238.

1942 FORD, business coupe, rebuilt motor \$125 cash, Martin, 422 Stanford SE, ext. 2-6238.

MONTGOMERY WARD stove and refrigerator. Ayer, Alb. 6-0757.

SKIS and BRACES, never used, 6 ft. 6 in., steel rimmed. Ness, ext. 2-7149.

HEAVY plate glass mirror, 2 ft. diameter \$5; also 4 x 6 cotton hooked rug, floral design \$8. Field, Alb. 6-2613.

TORQUE wrench, 1/2 in. drive with dial indicator; Ames cylinder gage with dial indicator and attachments, both new, both for \$25. Shew, 1508 Katie St. NE, ext. 2-2156.

DEEP FREEZE, 12 cu. ft., take over payments, can be seen at 405 Louisiana Blvd. SE. Hakes.

TWO SETS ski equipment including skis, binders, boots and poles \$50. McKnight, 9023 Los Arboles Ave. NE (Hoffmanton) Alb. 5-9046.

1941 CHEVY. club coupe, R and H, seat covers, back-up and hood lights, 1954 safety sticker \$200; also chain drive tri cycle \$10, see at 7902 Indian School Rd. NE, Russell, ext. 20135.

NEW DORMEYER power chef food mixer Model 4201 \$35 in original carton, list price is \$46.50. Power, Alb. 5-7466.

FOR RENT—

ONE-BEDROOM apartment, lots of closet and cabinet space, stove, refrigerator and venetian blinds. Apply at 304 Wyoming Blvd. NE. Lawrence, ext. 2-2156.

UNFURNISHED two bedroom home with gas range, refrigerator, large living room with fireplace, water and garbage paid, near base, \$70 per month. Flowers, Alb. 5-9822.

FURNISHED room for bachelor in Snow Heights, complete kitchen and laundry privileges \$40 per month. Hevert, Alb. 5-4570, 8007 Aspen Dr. NE.

NICELY furnished rooms with kitchen privileges for women or married couple, \$40 monthly per person, Constitution between Girard and Carlisle. Puplesi, Alb. 5-3333 weekends or after 5 p. m.

WANTED—

RIDE from Osuna Rd. and Second Street NW to bldg. 802, Joanne Pearson, ext. 3-6239.

ONE OR TWO persons to join car pool from San Pedro and Constitution NE to adm. bldg. L. H. Price, Alb. 6-1032.

PERSON with car to join pool, vicinity Carlisle Plaza to Bldg. 860 or 880. Ted Gourd, Alb. 4-0280.

TO JOIN car pool vicinity Bel Air to bldg. 800. Jenkins, Alb. 5-1033.

ELECTRIC print dryer, at least 11 x 14 in. with built-in ferrotypes tins. Grubbs, ext. 2-5144.

RIDE from 10th and Tijeras to bldg. 880. Audrey Benderman, Alb. 3-0612.

THREE PERSONS to complete car pool from vicinity Rio Grande Blvd. and Candelaria Rd. to north tech. area gates. Hurt, Alb. 4-2973.

RIDERS from vicinity Tapia Rd. Isleta Highway and Barcelona Rd. to south gate area 1. Roy Baker, ext. 26155, 2261 Wilbur Ave. SW.

TWO RIDERS from Mankin Addition to bldg. 880. Hank Willis, ext. 27162.

RIDERS or will join car pool from Adams and Menaul NE (Bel Air) to bldg. 880 or 892. R. E. Summer, Alb. 5-6030.

RIDE from 53rd and Central West to adm. bldg. Shultz, Alb. 2-6974.

RIDE from 2700 Rio Grande Blvd. NW to medical bldg. A. Masterson, Alb. 4-1231.

TO JOIN car pool from vicinity Coal and Yale to bldg. 802 or north tech. area. Huston, ext. 2-9149.

RIDE from 2707 Monroe St. NE (Bel Air) to bldg. 892. Nikki Feild, Alb. 5-3070.

RIDE or join pool from corner Indian School Road and Broadway NE to bldg. 892. Pat Alires, Alb. 7-9852.

RIDE from 817 Amherst NE. Frances Sterling, ext. 2-2259.

RIDE for two or three persons or will join car pool from vicinity Van Cleve and Grande Rd. Zaluga, Alb. 4-1564.

RIDE or riders from vicinity Central and Pine to south tech. gate. Vic Gabaldon, Alb. 2-7396 evenings or weekends.

Sandia Lovelies Vie for Title of Ski Ball Queen

Tomorrow night the Queen of the annual Ski Ball will be announced. Among candidates for the throne are Jean Milfs, 1613, and Billie Cotter, wife of Don Cotter, 1264.

The Ski Ball will be held tomorrow evening in the ballroom of the Hilton Hotel. The ballroom will be transformed into a winter wonderland with decorations under the direction of Joyce Farwell, wife of George Farwell, 1643.

The Ball, sponsored by the Albuquerque Ski Club, is open to everyone.

The Orlie Wagner Orchestra will entertain. Dress will be semiformal, evening gowns for the ladies, business suits for the men, and the dance will last from 9:30 to 12:30. Tickets at \$3 per couple will be available at the door.

Other Sandians who helped plan the affair are Henry Strauss, 2320, member of the club's board of directors, and Kevin Moriarty, 4312, club treasurer.

ASTE Will Hold Annual Election

New officers for the American Society of Tool Engineers will be elected when the group meets Feb. 9 at Leonard's Restaurant.

The meeting will be preceded by a \$2.25-a-plate dinner at 7 p. m. Speaker of the evening will be John Osbrink, President of the Osbrink Manufacturing Co., Los Angeles. He will discuss techniques of precision casting as developed by his firm.

In addition to electing new officers the Society will vote on national committee members. A slate of nominees for Society office has been selected by a committee under Arthur Miller, 2553, but nominations from the floor will be open.

Outgoing officers are: President Harold Baecker, 2531; Douglas Kennedy, 1643, first vice-president; Fred Deiber, 5342, second vice-president; Joe Moody, 1651, secretary, and treasurer William Porter, Acoma Corporation president.

Malamute Mamma Announces Pups

Our readers may recall last year's feature story on the handsome pair of Malamute dogs that Jerry, 4222,



and John Neuberger, 1332, are raising at their home in Sandia Park.

This month the story had six sequels—one male and five female. Malamute pups were born to Sierra Snowball and her husky mate, Sierra Alaska.

The Neuberger report the Eskimo dog family is in fine shape, particularly delighted with the snowfall in the Sandia Park area.

Solution to Chess Problem, Page 5

1. White Queen moves to Rook's square. Black Bishop takes Queen.
2. White Rook moves to Queen's Knight 2. Black Bishop takes Rook.
3. White Bishop takes Black Bishop. MATE.

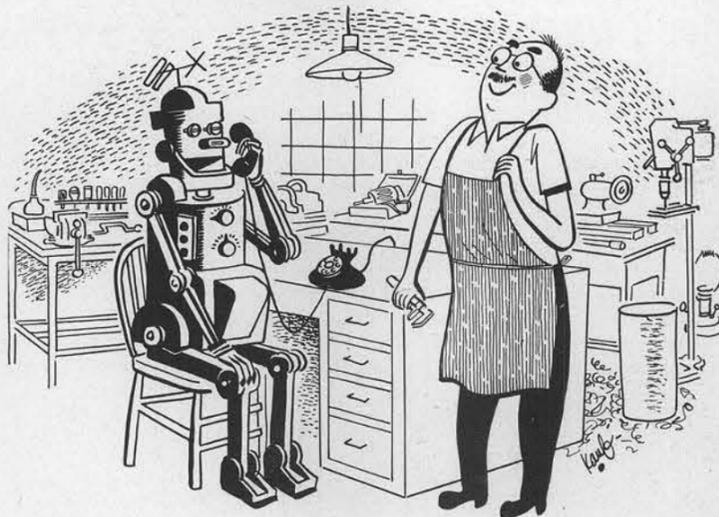
RIDE from Carlisle Blvd. and Vail Ave. SE to Bldg. 880. Stokes, ext. 20263.

TRADE—

.32 AUTOMATIC for S-40B Hallicrafter or similar radio; also 8:00x15 tire, good, for what-have-you. Flowers, Alb. 6-1656.

LOST—

EAR MOLD and receiver attachment vicinity bldg. 892 or on tech. area bus. Norbert Lorentz, ext. 3-4134.



"OPERATOR, GET ME THE PATENT OFFICE IN WASHINGTON, D.C."

Wise Re-Elected To Top Post in Gem, Mineral Club

Dean Wise, 2152, was re-elected president of the Albuquerque Gem and Mineral Club recently.

New vice-president of the club is Arnold Buzzalini of Albuquerque, Charles A. Tucker, 1641, is recording secretary; Ellen Wood, 2553, was re-elected corresponding secretary; Catherine Kunz, wife of Floyd Kunz, 2532, is treasurer, and Dave Miller, 2360, has been appointed to the club's governing board of directors.

The club meets on the second and fourth Monday of each month at 8 p. m. in the geology building lecture room on the University of New Mexico campus.

Programs of interest to beginners and advanced rock, gem and mineral collectors and hobbyists are offered. They consist of lectures, demonstrations, slides and movies dealing with the various earth sciences.

The club's primary purpose is the exchange of information and the furtherance of knowledge in mineralogy, gem cutting, and geology.

Sandians interested in this hobby are invited to attend the club's meetings.

Toastmistress Club Elects New Officers

The Turquoise Toastmistress Club recently elected Leoda Richards as the new president.

Virginia Miller was named vice president and Anita Fortman was chosen treasurer. Mary French is the new secretary.

The club meets again Feb. 3 at the home of Mr. and Mrs. B. J. Bittner, 5412, 3110-42nd Place, Sandia Base.

Pot luck dinner will be served and members will hear Dora Rosenbaum describe a recent trip to Europe.

Toastmaster Weber To Guide Talks At Club Meeting

Toastmaster at the Feb. 4 meeting of the Sandia Toastmasters Club will be Max Weber, 5132. Topicmaster for the evening will be Tom Muzzey, 3124.

The club meets each Thursday at the Coronado Club, 6:25 p. m. Speakers this time will be Jack Sublett, 2552; Art Jones, 2464; Ben Russo, 1521; Joff Myers, 1322; and Peter Meigs, 5132. Alternate speaker will be Charles Carpenter, 1241.

Evaluators are to be Col. R. E. Snetzer; Arthur Russell, 1643; Edward Roth, 1643; Tom Robertson, 1640; and L. W. Newhouse, 1645. Alternate will be Andy Max, 5223.

The general evaluator is to be Ellis Turner, 1623, and Nate Wineberg, 2553, will give the invocation.

IRE Nuclear Group Nominates Officers

The professional group on Nuclear science of the Institute of Radio Engineers met Jan. 20 to select a nominating committee for officers to be elected next month.

The committee includes Barney Carr, 5414, Ed Miller, 6010, and Jim Deer, 1242-2. They plan to send the proposed slate of officers to members via mail.

Chemical Warfare

If you hear his co-workers in 2531-2 calling Tom Harrell "Flow-ers" these days, they have a reason:

Recently Tom was awakened in the wee hours by a racket and a most pungent odor. As he puts it, "Two skunks were having a not-so-sham battle under my house."



ON A FIELD TRIP near San Ysidro, N.M., members of the Albuquerque Gem and Mineral Club pause in their prospecting for a picture. L to R: Janet and Joyce Tucker, Mrs. Dorothy McKee, wife of Jesse McKee, 2124, Mrs. Aline Tucker, Dean Wise, 2152, Charles Tucker, 1641, Charles Skaloud, 2122, Mrs. Skaloud, and (kneeling) Dean Wise, Jr.